

Nasser L Azad

List of Publications by Year in descending order

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50
papers

1,049
citations

516710

16
h-index

454955

30
g-index

52
all docs

52
docs citations

52
times ranked

985
citing authors

#	ARTICLE	IF	CITATIONS
1	Smart Autodriver Algorithm for Real-Time Autonomous Vehicle Trajectory Control. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 1984-1995.	8.0	15
2	Security-aware optimal actuator placement in vehicle platooning. Asian Journal of Control, 2022, 24, 1557-1574.	3.0	1
3	Comparison of Deep Reinforcement Learning and Model Predictive Control for Adaptive Cruise Control. IEEE Transactions on Intelligent Vehicles, 2021, 6, 221-231.	12.7	98
4	Distributed Nonlinear Model Predictive Control and Metric Learning for Heterogeneous Vehicle Platooning with Cut-in/Cut-out Maneuvers. , 2020, , .		13
5	Security of Vehicle Platooning: A Game-Theoretic Approach. IEEE Access, 2019, 7, 185565-185579.	4.2	22
6	Intelligent Control of Connected Plug-in Hybrid Electric Vehicles. Advances in Industrial Control, 2019, , .	0.5	6
7	A stochastic power management strategy with skid avoidance for improving energy efficiency of in-wheel motor electric vehicles. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2019, 233, 1306-1319.	1.9	4
8	Multi-parametric Predictive Control. Advances in Industrial Control, 2019, , 79-102.	0.5	0
9	Route-Based Supervisory Controls. Advances in Industrial Control, 2019, , 145-167.	0.5	0
10	A Distributed Reference Governor Approach to Ecological Cooperative Adaptive Cruise Control. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 1496-1507.	8.0	56
11	Adaptive Tube-Based Nonlinear MPC for Economic Autonomous Cruise Control of Plug-In Hybrid Electric Vehicles. IEEE Transactions on Vehicular Technology, 2018, 67, 11390-11401.	6.3	53
12	An optimal learning-based controller derived from Hamiltonian function combined with a cellular searching strategy for automotive coldstart emissions. International Journal of Machine Learning and Cybernetics, 2017, 8, 955-979.	3.6	7
13	Control-relevant parameter estimation application to a model-based PHEV power management system. Optimal Control Applications and Methods, 2017, 38, 1148-1167.	2.1	7
14	Ecological Cruise Control of a Plug-in Hybrid Electric Vehicle: A comparison of different GMRES-based Nonlinear Model Predictive Controls. , 2017, , .		8
15	Real-Time Nonlinear Model Predictive Control of a Battery-Supercapacitor Hybrid Energy Storage System in Electric Vehicles. IEEE Transactions on Vehicular Technology, 2017, 66, 9678-9688.	6.3	134
16	A hierarchical selective ensemble randomized neural network hybridized with heuristic feature selection for estimation of sea-ice thickness. Applied Intelligence, 2017, 46, 16-33.	5.3	5
17	Robust tube-based MPC for automotive adaptive cruise control design. , 2017, , .		8
18	Ecological Adaptive Cruise Control of a plug-in hybrid electric vehicle for urban driving. , 2016, , .		15

#	ARTICLE	IF	CITATIONS
19	A Nonlinear Model Predictive Controller With Multiagent Online Optimizer for Automotive Cold-Start Hydrocarbon Emission Reduction. IEEE Transactions on Vehicular Technology, 2016, 65, 4548-4563.	6.3	18
20	A Newton/GMRES Approach to Predictive Ecological Adaptive Cruise Control of a Plug-in Hybrid Electric Vehicle in Car-following Scenarios**This work was supported by NSERC and Toyota. IFAC-PapersOnLine, 2016, 49, 59-65.	0.9	14
21	Biologically inspired time-delay soft sensors for online monitoring of automotive coldstart operations: a comparative analysis. Meccanica, 2016, 51, 1931-1972.	2.0	0
22	Multi-objective component sizing of a power-split plug-in hybrid electric vehicle powertrain using Pareto-based natural optimization machines. Engineering Optimization, 2016, 48, 361-379.	2.6	20
23	A robust time delay auto-regressive exogenous fuzzy inference system for real-time estimation of catalyst temperature over engines coldstart operation: a multiobjective implementation scenario. International Journal of Dynamics and Control, 2016, 4, 134-153.	2.5	4
24	A Comparative Analysis of Route-Based Energy Management Systems for Phevs. Asian Journal of Control, 2016, 18, 29-39.	3.0	27
25	Chaos oscillator differential search combined with Pontryagin's minimum principle for simultaneous power management and component sizing of PHEVs. Optimization and Engineering, 2016, 17, 727-760.	2.4	10
26	Self-controlled bio-inspired extreme learning machines for scalable regression and classification: a comprehensive analysis with some recommendations. Artificial Intelligence Review, 2016, 46, 167-223.	15.7	3
27	A hybrid switching predictive controller with proportional integral derivative gains and GMDH neural representation of automotive engines for coldstart emission reductions. Engineering Applications of Artificial Intelligence, 2016, 48, 72-94.	8.1	6
28	Mixed continuous/binary quantum-inspired learning system with non-negative least square optimisation for automated design of regularised ensemble extreme learning machines. Journal of Experimental and Theoretical Artificial Intelligence, 2016, 28, 581-606.	2.8	3
29	A hybrid switching predictive controller based on bi-level kernel-based ELM and online trajectory builder for automotive coldstart emissions reduction. Neurocomputing, 2016, 173, 1124-1141.	5.9	6
30	Ecological Adaptive Cruise Controller for Plug-In Hybrid Electric Vehicles Using Nonlinear Model Predictive Control. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 113-122.	8.0	149
31	Battery Thermal Management of Electric Vehicles: An Optimal Control Approach. , 2015, , .		10
32	Calibration of catalyst temperature in automotive engines over coldstart operation in the presence of different random noises and uncertainty: Implementation of generalized Gaussian process regression machine. Frontiers of Mechanical Engineering, 2015, 10, 405-412.	4.3	0
33	Real-time immune-inspired optimum state-of-charge trajectory estimation using upcoming route information preview and neural networks for plug-in hybrid electric vehicles fuel economy. Frontiers of Mechanical Engineering, 2015, 10, 154-167.	4.3	6
34	Real-time predictive control strategy for a plug-in hybrid electric powertrain. Mechatronics, 2015, 29, 13-27.	3.3	43
35	A Soft Sensor Based on the Integration of Tikhonov Extreme Learning Machine and Accelerated Kernels for Real-Time Estimation of Automotive Catalyst Temperatures. International Journal of Computational Intelligence and Applications, 2015, 14, 1550024.	0.8	0
36	Auto-regressive multiple-valued logic neurons with sequential Chua's oscillator back-propagation learning for online prediction and synchronization of chaotic trajectories. International Journal of Intelligent Computing and Cybernetics, 2015, 8, 102-138.	2.7	2

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37	Vehicle speed prediction via a sliding-window time series analysis and an evolutionary least learning machine: A case study on San Francisco urban roads. <i>Engineering Science and Technology, an International Journal</i> , 2015, 18, 150-162.	3.2	37
38	Coupling Gaussian generalised regression neural network and mutable smart bee algorithm to analyse the characteristics of automotive engine coldstart hydrocarbon emission. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 2015, 27, 253-272.	2.8	5
39	Design and evaluation of a predictive powertrain control system for a plug-in hybrid electric vehicle to improve the fuel economy and the emissions. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2015, 229, 624-640.	1.9	12
40	Online optimization of automotive engine coldstart hydrocarbon emissions control at idle conditions. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2015, 229, 781-796.	1.0	4
41	A robust safety-oriented autonomous cruise control scheme for electric vehicles based on model predictive control and online sequential extreme learning machine with a hyper-level fault tolerance-based supervisor. <i>Neurocomputing</i> , 2015, 151, 845-856.	5.9	36
42	Intelligent power management of plug-in hybrid electric vehicles, part I: real-time optimum SOC trajectory builder. <i>International Journal of Electric and Hybrid Vehicles</i> , 2014, 6, 46.	0.3	24
43	Intelligent power management of plug-in hybrid electric vehicles, part II: real-time route based power management. <i>International Journal of Electric and Hybrid Vehicles</i> , 2014, 6, 68.	0.3	21
44	A comparative analysis of route-based power management strategies for real-time application in plug-in hybrid electric vehicles. , 2014, , .		21
45	Optimally pruned extreme learning machine with ensemble of regularization techniques and negative correlation penalty applied to automotive engine coldstart hydrocarbon emission identification. <i>Neurocomputing</i> , 2014, 131, 143-156.	5.9	50
46	High-Fidelity Modeling of a Power-Split Plug-In Hybrid Electric Powertrain for Control Performance Evaluation. , 2013, , .		17
47	Determining Model Accuracy Requirements for Automotive Engine Coldstart Hydrocarbon Emissions Control. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2012, 134, .	1.6	23
48	Traction-Motor Power Ratio and Speed Trajectory Optimization for Power Split PHEVs Using Route Information. , 2012, , .		12
49	Design and evaluation of a real-time fuel-optimal control system for series hybrid electric vehicles. <i>International Journal of Electric and Hybrid Vehicles</i> , 2012, 4, 260.	0.3	12
50	On-line Situational Awareness for Autonomous Driving at Roundabouts using Artificial Intelligence. <i>Journal of Machine Intelligence and Data Science</i> , 0, , .	0.0	2